

## 590 Nutrient Management Planning Information

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Check the description below that most closely describes your current soil testing method and complete any information that applies.

- A soil test was last completed on my farm \_\_\_\_\_ / greater than 5 years? \_\_\_\_\_  
(Date)  
☐ Soil test field(s) annual Depth of soil sample  
☐ Soil test alfalfa field(s)  
☐ Soil test field(s) within 90 days prior to seeding
- Soil for the soil test is collected by \_\_\_\_\_ and sent to \_\_\_\_\_  
 \_\_\_\_\_ Lab. N ppm; P ppm; K ppm; om% pH  
☐ This lab has a land grant approved status or is certified.  
☐ Local fertilizer company  
☐ Used same lab facility for several years in a row (*using same testing facility is recommended for consistency in test results*).
- Apply soil test recommendation. \_\_\_\_\_ less or \_\_\_\_\_ more than recommendation.
- Fertilizer is applied most generally:  
☐ In the fall  
☐ In the spring with the seed for starter  
☐ Top dressed after the crop has emerged
- I currently have \_\_\_\_\_ years of fertilizer / manure application records.

6. I am following an Irrigation Water Management Plan

Field	Acres	Date Applied	Crop	Manure (Rate Applied) Fertilizer (Rate Applied)
EX: 1	23.4	5/1/03	Corn	100# 5-50-5, 125# 46-0-0 10T/ac (beef) 9-22-39 estimated

- Soil loss estimates: \_\_\_\_\_ tons per yr (Wind) \_\_\_\_\_ tons per year (Water)  
 \_\_\_\_\_ Other \_\_\_\_\_ Gypsum \_\_\_\_\_ Sulfuric Acid  
 Application: \_\_\_\_\_ Broadcast \_\_\_\_\_ Injected \_\_\_\_\_ Banded

8. MANURE: Manure test: NO3 Amm N Org N P205 K20  
 Manure application rate \_\_\_\_\_ ton/ac solid \_\_\_\_\_ gallons/ac liquid.  
 Age of solid manure \_\_\_\_\_ Moisture content at time of application \_\_\_\_\_  
 Incorporate into soil \_\_\_\_\_ < 2 days \_\_\_\_\_ < 4 days \_\_\_\_\_ > 4 days \_\_\_\_\_ None  
 \_\_\_\_\_ Manure application equipment is calibrated. Domestic well tested for nitrates/bacteria  
 Spreader length \_\_\_\_\_ width \_\_\_\_\_ depth \_\_\_\_\_ #/cu. Ft. (avg 45#) \_\_\_\_\_  
 Soil on solid application area: Texture \_\_\_\_\_ Depth \_\_\_\_\_ Temp \_\_\_\_\_ Slope \_\_\_\_\_  
 Soil on liquid application area: Texture \_\_\_\_\_ Depth \_\_\_\_\_ Temp \_\_\_\_\_ AWC \_\_\_\_\_  
 Use other options for utilizing manure: Bedding \_\_\_\_\_ Compost \_\_\_\_\_ Sell, give away \_\_\_\_\_

Utilize set backs from sensitive areas and don't apply wastes within 100 ft; 35 feet if vegetated.

9. Number of animals \_\_\_\_\_ Average weight per animal \_\_\_\_\_  
 Type of animal (*i.e. beef cattle, horse, swine, sheep, etc.*) \_\_\_\_\_  
 \_\_\_\_\_ A manure test was completed to establish nutrient content \_\_\_\_\_ annually \_\_\_\_\_ years  
 \_\_\_\_\_ A Nutrient Management Plan was developed for your farm

10. Animal Feeding Operation – **AFO**

- \_\_\_\_\_ Animal(s) confined  $\geq$  45 days per year, no vegetation during growing season  
 \_\_\_\_\_ Less than medium CAFO number

11. Confined Animal Feeding Operation – **CAFO**

- \_\_\_\_\_ Medium CAFO numbers and a wastewater ditch, pipe or animals contact surface water running through area  
 \_\_\_\_\_ AFO with discharge of pollutants to surface water Number of animals \_\_\_\_\_  
 \_\_\_\_\_ Large animal numbers Days confined in a year \_\_\_\_\_

CAFO Animal Numbers	
Medium – Large	Medium – Large
200 – 700 Dairy Cattle	150 – 500 Horses
300 – 1,000 Beef Cattle	3,000 – 10,000 Sheep or Lambs
750 – 2,500 #55 Swine	9,000 – 30,000 Chickens
3,000 – 10,000 < #55 Swine	16,500 – 55,000 Turkeys

**For (CNMP) Comprehensive Nutrient Management Plans use the CAFO/AFO Resource Inventory sheets. See Agronomy Note 19 for checklist on NMP and CNMP plan components.**

## Nutrient Management Check sheet

WY-ECS-58a

### INVENTORY:

- \_\_\_\_\_ WY-ECS-58 Nutrient Management Planning Worksheet
- \_\_\_\_\_ WY-ECS-60 AFO/CAFO Resource Inventory Data Collection Sheet (if needed)
- \_\_\_\_\_ Conservation District Environmental Assessment for Manure Management (optional)

### CONSERVATION PLAN MAP:

- \_\_\_\_\_ North arrow properly shown and legal description
- \_\_\_\_\_ Acres and location of nutrient (commercial fertilizer or manure) application
- \_\_\_\_\_ All fields properly numbered with Land use for all fields properly identified
- \_\_\_\_\_ Sensitive areas located: domestic wells, irrigation canals/ditches, riparian areas/wetlands, surface water bodies such as ponds
- \_\_\_\_\_ Soils map with Non-technical soils report; and Physical Properties soils report
- \_\_\_\_\_ Erosion Prediction Calculations: WY-ECS-40A Wind (WEQ) 9.0 or WY-ECS-40B Water RUSLE2
- \_\_\_\_\_ WY-ENG-39 Irrigation Water Management
- \_\_\_\_\_ Title block that includes Producer name, county, state, approximate acres, approximate scale, name of map preparer, date.

### DESIGN:

- \_\_\_\_\_ WY-ECS-45A Solid Waste Utilization Plan Spreadsheet, if solid manure is applied
- \_\_\_\_\_ WY-ECS-45B Liquid Waste Utilization Plan Spreadsheet, if liquid manure is applied
- \_\_\_\_\_ WY-ECS-86 CNMP (Comprehensive Nutrient Mgmt Plan) for CAFOs (Confined Animal Feeding Operations—several animals to thousands)
- \_\_\_\_\_ Agronomy Note 15 – Phosphorus Index – if manure is applied or if Soil Test P is > 50 ppm
- \_\_\_\_\_ WY-ECS-44 Nutrient Management Design Jobsheet for commercial fertilizer and manure  
Note at the bottom of this page the quantifications of the nutrients (manure and commercial fertilizer) applied to explain the values you put in the form. Note whether the application rate was Nitrogen or Phosphorus based rate.  
le: 12 Ton (11-14-20) Nitrogen based 100# (5-50-5) Starter 125# (11-52-0)  
Nitrogen credits—Don't consider atmospheric Nitrogen unless you are less than 100 miles from the measuring sites. I don't recommend putting in nitrogen for irrigation water unless you have a water sample. The first (left) column Current— is what the producer is currently doing and the second (right) column Plan-- what should be planned or given as an alternative. Determine this with the help of the University of WY Fertilizer Guide. Do not just put what the soil test recommended. Seldom is this what the producer applies.  
Agronomy Note 20 is not to be used in Nutrient Management Plans! Use WY-ECS-44, 45.

### References:

- \_\_\_\_\_ University of WY Guide to Wyoming Fertilizer Recommendations, B-1045
- \_\_\_\_\_ Agronomy Note 11 – WY-ECS-44 Nutrient Mgmt Design with instructions
- \_\_\_\_\_ Agronomy Note 12 – WY-ECS-45A Solid Waste Utilization Plan with instructions
- \_\_\_\_\_ Agronomy Note 13 Fall/Snow Manure Application
- \_\_\_\_\_ **Agronomy Note 19** – Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklist
- \_\_\_\_\_ Agronomy Note 24 – Ag Waste Available Water Holding Capacity –
- \_\_\_\_\_ Agronomy Note 25 – Nitrogen Leaching Index, if Nitrogen applied is >50# was in excess of agronomic rate.
- \_\_\_\_\_ Agronomy Note 26 – RUSLE2 User Manual
- \_\_\_\_\_ Wind Erosion Templates (WEQ 9.0) located on your S Drive